1	ABSTRACT
2 3	Methods for immunizing, and immunogen pharmaceutical compositions for eliciting a
4	heterologous immune response to HIV-1 in an animal, preferably a human, are
5	provided, utilizing a modified HIV-1 envelope protein or fragment or DNA encoding a
6	modified HIV-1 envelope protein or fragment, the modified protein having a HIV-1
7	envelope protein V2 region deletion. A humoral response against heterologous HIV-1
8	strains is achieved.
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